

Question	Answer
13.	$V = 160 \text{ ft}^3$
15.	$V = 384 \text{ ft}^3$
16.	$V = 10,125 \text{ ft}^3$; $V = 375 \text{ yd}^3$
17.	$V = 1107\pi \text{ m}^3$ $\approx 3477.7 \text{ m}^3$
19.	$V = 144\pi \text{ ft}^3 \approx 452.4 \text{ ft}^3$
20.	the volume is multiplied by $\frac{1}{27}$.
21.	The volume is multiplied by 216.
22.	$V \approx 754.0 \text{ ft}^3$
23.	$V = 150 \text{ ft}^3$
34.	$V = 96\pi \text{ ft}^3$
39.	<p>3:2; The base areas are the same for both figures The volume of the prism is By, and the volume of the figure formed by 2 pyramids is $\frac{1}{3}B(2y)$.</p> <p>The ratio of the volumes is $By : \frac{1}{3}B(2y)$, which is equivalent to 3:2.</p>

Question	Answer
40.	Possible answer: I would substitute the given values for r and S into the surface area formula and solve for ℓ . Then I would use the Pythagorean Theorem and the values of r and ℓ to find h . Then I would substitute the values for r and h into the volume formula.
41a.	33.5 in^3 ;
41b.	134.0 in^3
41c.	\$5; the large size holds 4 times as much.